

SECTION 08 33 19

OVERHEAD COILING DOORS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Roll-up (coiling) steel service doors.
- B. Power operating equipment.

1.02 RELATED SECTIONS

- A. Finish field painting is specified in Section 09 91 00 - Painting.
- B. Electrical service conduit and wiring, disconnect switches, and overcurrent protection are included in applicable Electrical Sections.

1.03 MEASUREMENT AND PAYMENT

- A. General: Overhead coiling doors will not be measured separately for payment but will be paid for as part of the Contract lump sum price for Architectural Work.

1.04 SUBMITTALS

- A. General: Refer to Section 01 33 00 - Submittal Procedures, and Section 01 33 23 - Shop Drawings, Product Data, and Samples, for submittal requirement and procedures.
- B. Shop Drawings and Product Data: Submit detailed Shop Drawings and manufacturer's product data of overhead coiling doors, including installation details and wiring diagrams.
- C. Operation and Maintenance Data:
 - 1. Submit operation and maintenance data in accordance with requirements of Section 01 78 23 - Operation and Maintenance Data.
 - 2. Submit recommended spare parts list, together with parts' numbers and prices, and photographs or cuts of repair parts.
 - 3. Submit operation and maintenance manual containing printed instructions relative to operation, adjustment, care, and maintenance of the equipment. Include wiring diagrams showing field changes, if any.

1.05 QUALITY ASSURANCE

- A. Provide the services of a manufacturer's representative, experienced in the installation, operation, and maintenance of overhead coiling doors of the type specified, for technical assistance and advice during installation and testing.

1.06 SPARE PARTS

- A. Provide one set of critical spare parts for each door, boxed and identified, including installation instructions, wiring diagrams, and other information as necessary to make emergency repairs.

PART 2 - PRODUCTS

2.01 ROLL-UP (COILING) DOORS

- A. Type and Manufacture: Roll-up (coiling) steel service doors shall be motor-operated, steel roll-up type, face-mounted as indicated. Doors shall be counter-balanced for smooth and easy operation.
- B. Design Criteria: Doors shall be designed and manufactured to be fully operable under a wind load of 20 pounds per square foot.
- C. Curtain: Door curtain shall consist of interlocking slats fabricated from minimum No. 20 gage, or heavier if required by size of door or fire-rating class, hot-dipped galvanized copper bearing strip steel. Galvanizing shall be in accordance with ASTM Standards with not less than 1.25 ounces per square foot of slat material. Prepare for painting with phosphate treatment standard with the manufacturer. Bottom edge of curtain shall be reinforced with two angles back to back. Style of slats shall be flat and rectangular as selected by the Engineer from manufacturer's standards.
- D. Weather Seal: Weather seal shall be a compressible weatherseal mounted along the bottom edge of the door. Color of sealing strip shall be white.
- E. Guides: Guides shall be of standard rolled steel angles or channels, as required, not less than 3/16-inch thick and of sufficient size to retain curtain in guides at a wind pressure of 20 pounds per square foot. Include all anchors, fasteners, and accessories as required to properly prepare door opening for installation of the guides.
- F. Brackets: Brackets shall be of fabricated mild steel plate, bolted to wall angles that extend continuously from the floor to the top of the curtain brackets. Each wall angle shall in turn be secured to the wall with not less than five 1/2-inch standard bolts or anchors as applicable.
- G. Barrel: Barrel shall house an oil-tempered helical counterbalance spring and be of sufficient size to prevent deflection of over 0.03 inch per foot of opening span. Shaft bearings in barrel and bracket shall be roller bearing thoroughly lubricated to require no further attention.
- H. Hood: Hood shall be formed to fit the contour of the brackets and shall be fabricated of not less than 24 gage galvanized steel. Hood shall be continuous one piece over the full length of overhead door.
- I. Weatherstripping: Hood shall have a hinged baffle of neoprene and galvanized sheet metal so positioned that it will form an effective draft stop when the door is in the closed position. Jambs shall be weatherstripped with continuous end lock, and shall have a continuous bronze strip with webbing.
- J. Finish: Finish shall consist of one factory-applied, manufacturer's standard shop coat of rust-inhibitive metal primer before shipment.

2.02 POWER OPERATING EQUIPMENT

- A. Roll-up (coiling) doors shall be motor-operated. All equipment and accessories necessary for the proper operation of doors shall be furnished and installed. Motors shall be electric hoist-type, high-starting torque, providing sufficient power to operate doors at approximately one foot per second without shock.
- B. Provide prewired power operator with operating components preconnected to terminal strips within control box to facilitate field connection to power source and push-button operating station.
- C. Furnish and install an operating station for the remote control and operation of each door at locations indicated. Stations shall be a push-button-type with "Open", "Close", and "Stop" positions in non-public areas and key switched in public accessible areas by maintained contact. Key cylinder shall be furnished under Section 08 71 00 - Door Hardware.
- D. Electric operator (motor) shall be fully automatic, furnished complete with pushbutton controls or key switch as hereinbefore specified and limit switch.
- E. All doors shall have over-ride manual operating capability. An emergency hand crank operator shall be provided to operate the door in case of power failure or removal of motor for inspection or servicing. The motor disengaging shall be accomplished by an eye hook using the hand crank.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Roll-up (coiling) steel service doors shall be installed by the manufacturer or its authorized representative, employing only workers and mechanics skilled and experienced in the installation of the type of work involved. Doors shall be installed as indicated and in accordance with the approved Shop Drawings and the manufacturer's installation instructions and recommendations.
- B. After installation is complete, the Contractor shall demonstrate to the District that the doors operate properly in accordance with the manufacturer's specifications and recommendations.
- C. Verify that operating controls, manual controls, bypass and safety devices are operating properly.
- D. The Contractor shall instruct District personnel in the operation of the doors.

3.02 MAINTENANCE

- A. The Contractor shall provide call-back maintenance service for a period of one year, beginning from the date of Acceptance of the Work.

END OF SECTION 08 33 19